

**Notice of Allowability**

Application No.

10/687,591

Applicant(s)

TAKEMAE, YOSHIHIRO

Examiner

Daniel Kim

Art Unit

2185

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/7/06.
2. ☒ The allowed claim(s) is/are 16-27 (renumbered as 1-12).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☒ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: 2001-052484.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 10/20/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**STEPHEN C. ELMORE**  
**PRIMARY EXAMINER**

***Examiner's Comment, Examiner's Amendment and Reasons for Allowance***

***Examiner's Comment***

Correction to Previous Office Action

1. In the Office Action mailed February 7, 2006 the examiner noted that the claim for priority under 35 U.S.C. 119(a)-(d) or (f) was approved because the priority document had been received.

However, upon further consideration it is apparent that the priority document was not received in the office. Therefore, this status has been corrected in the present Office Action to show that the certified document has not yet been received in the office.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on October 20, 2003, which the examiner has already considered, failed to positively indicate the status of the "Semiconductor Memories" non-patent literature. Therefore, an updated copy of this IDS is being provided to reflect its correct status. The updated IDS shows that this reference has not been considered by the examiner because no copy of the references were found to have been submitted, either filed in this patent application or in any related application.

***Examiner's Amendment***

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Charles Marmelstein, registration number 25,895 on October 24, 2006.

4. In the claims:

Claim 1, line 1,

replace "capable of" with --for--;

Claim 26, line 2,

replace "capable of" with --for--.

***Reasons for Allowance***

5. The following is an examiner's statement of reasons for allowance:

In independent claims 16 and 26 directed towards a common memory controller for controlling different types of memory chips which are connected to a common bus, the following features taken in combination with the remaining limitations in the independent claims are not found in and/or are not obvious in view of the prior art of record, giving the language "in response to a specification of each of said memory

chips" the scope of meaning as disclosed in the specification and drawings at paragraphs [0067] and [0084-0085] and in Fig. 5.

6. In claim 16, *"a conversion control portion for converting said control output signal into a memory input signal in response to a specification of each of said memory chips to which the memory controller is connected, and converting a memory output signal output from the memory chips into the control input signal receivable to said controller"*.

7. In claim 26, *"a conversion control portion for converting said control output signal into a memory input signal in response to a specification of each of the memory chips, and converting a memory output signal output from the memory chips into the control input signal receivable to said controller"*.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

#### **Contact Information**

9. Any inquiries concerning this action or earlier actions from the examiner should be directed to Daniel Kim, reachable at 571-272-2742, on Mon-Fri from 10:00am-

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6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah, is also reachable at 571-272-4098.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information from published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. All questions regarding access to the Private PAIR system should be directed to the Electronic Business Center (EBC), reachable at 866-217-9197.

D/K

10-24-06

*SC Elmore* 10/24/06  
STEPHEN C. ELMORE  
PRIMARY EXAMINER